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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/813,023	03/31/2004	Yen Sheng Chang	BHT-3244-40	3849	
7590 07/25/2006			EXAM	EXAMINER	
TROXELL LAW OFFICE PLLC			ВАЕ, Л Н		
SUITE 1404 5205 LEESBUR	RG PIKE	ART UNIT	PAPER NUMBER		
FALLS CHURCH, VA 22041			2115		
			DATE MAILED: 07/25/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)					
Office Action Summary		10/813,023	3 .	CHANG, YEN SHENG					
		Examiner		Art Unit					
		Ji H. Bae		2115					
	The MAILING DATE of this communication ap	opears on the	cover sheet with the c	orrespondence ad	dress				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,									
 WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 									
Status	·								
1)⊠	Responsive to communication(s) filed on 31 I	March 2004.							
2a)	This action is FINAL . 2b) This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims								
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.									
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
·	Claim(s) <u>1-31</u> is/are rejected.								
· •	Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	ion Papers								
9)	The specification is objected to by the Examin	ner.							
10)🛛	10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
·		Examiner. No	le the attached Office	Action of formal	0-102.				
-	under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) All b) Some * c) None of:									
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	nt(s)								
	ce of References Cited (PTO-892)		4) Interview Summary Paper No(s)/Mail Da						
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/06 er No(s)/Mail Date	98)	5) Notice of Informal P 6) Other:	ratent Application (PTC	O-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4, 7, 8, 15, 18, 22, 25, and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Feigenbaum et al., U.S. Patent No. 5,307,497.

Regarding claim 1, Feigenbaum a method with steps comprising:

providing a memory accessing unit having a memory module for storing booting information for the computer [Fig. 1, ROM 16];

reading the booting information and saving the booting information in the main memory when the computer is booting:

and executing the booting information stored in the main memory [col. 3, lines 30-60].

Regarding claim 4, Feigenbaum teaches that the memory module is a non-volatile memory.

Regarding claims 7 and 8, Feigenbaum teaches that the booting information comprises at least a booting file, registry file, execution file, or association file for an operating system [col. 5, line 50 to col. 6, line 59]. Feigenbaum also teaches that the booting information comprises an operating system [DOS].

Regarding claim 15, Feigenbaum teaches at least one CPU reads and executes the booting information when the computer is booting [Fig. 1, microprocessor 12].

Regarding claims 18, 22, 25, and 26, Feigenbaum teaches the method of claims 1, 4, 7, 8, and 15. Feigenbaum also teaches the apparatus to implement the claimed method.

Claims 5, 6, 9-14, 16, 17, 20, 21, 23, 24, and 27-30 are rejected under 35 U.S.C. 102(e) as being anticipate by James, U.S. Patent Application Publication No. 2004/0034765 A1.

Regarding claims 5 and 6, James teaches the method of claim 1 [Fig. 1]. James also teaches that the non-volatile memory is a flash memory. James further teaches that the flash memory may be a flash RAM memory that requires a battery to maintain the memory content [paragraph 71].

Regarding claims 9-14, 16 and 17, James teaches:

that the operating system is MS Windows [paragraph 42];

that the booting information is a booting image file [abstract];

that the booting image file is constructed by booting information stored in the main memory when the computer is turned on [Fig. 2, steps 17-20];

setting the memory accessing unit as a booting device of the computer through the BIOS settings of the computer [paragraph 29, BIOS selects either the hard drive or flash memory as boot device];

that the memory accessing unit is connected to the main memory through a PCI interface [paragraph 30];

saving the booting image file in the memory accessing unit before shutting down the computer [Fig. 2, step 20];

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saving at least one booting file, registry file, execution file, and association file for an operating system in the memory accessing unit before shutting down the computer [registry hive, paragraph 42].

Regarding claims 20, 21, 23, 24, and 27-30, James teaches the method of claims 5, 6, 9-14, 16, and 17, and also teaches the apparatus to implement the claimed method.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, 19, 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feigenbaum.

Regarding claims 2, 3, 19, and 31, it would have been obvious to one of ordinary skill in the art to apply the teachings of Feigenbaum to desktop computers, notebook computers, or servers, as the systems are sufficiently similar that the teachings of Feigenbaum would apply to all three types. Additionally, it would have been obvious to one of ordinary skill in the art to implement the main memory as either DRAM, DDRAM, or RAMBUS as a matter of design choice. The selection of RAM type does not affect the inventive teachings of Feigenbaum.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

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Aguilar et al., U.S. Patent No. 6,289,449 B1;

Watts, U.S. Patent No. 6,336,161 B1;

Kang, U.S. Patent No. 6,434,696 B1;

Park, U.S. Patent Application Publication No. 2003/0145191 A1;

Stein et al., U.S. Patent No. 6,636,963 B1;

Ryu, U.S. Patent No. 6,453,414 B1;

Govindaraj et al., U.S. Patent No. 6,901,298 B1;

Cho, U.S. Patent No. 2005/0055591 A1;

Hsiao, U.S. Patent No. 6,718,548 B1;

Rhoads et al., U.S. Patent No. 6,715,067 B1;

Kobayashi, U.S. Patent No. 6,513,113 B1;

Lee et al., U.S. Patent Application Publication No. 2003/0172261 A1.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ji H. Bae whose telephone number is 571-272-7181. The examiner can normally be reached on Monday-Friday, 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ji H. Bae Patent Examiner Art Unit 2115 <u>ii.bae@uspto.gov</u> 571-272-7181

> THOMAS LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100